



2021 COS FORUM

October 27, 2021

Halliburton - Risk Management and 5 Checks to Go

Risk Management and 5 Checks to Go

- Legacy Risk Management
- Halliburton's Response
- Risk Management Process Overview
- 5 Checks to Go
- Integrated JSA Form
- Halliburton Digital Service Delivery Platform

Risk Management and 5 Checks to Go

Legacy JSA's

- Job Safety Analysis - Developed by supervisor, read to crew
- No standard hazard identification methodology – Focused on the familiar
- Employee's felt JSA was only another form to be completed
- Led to inconsistent JSA quality and pre-job meeting effectiveness

Job Safety Analysis			
Basic Job Steps	Potential Hazards	Controls and Mitigations	Assigned to
1. Hold Safety Meeting	Lack of understanding	Speak up if you don't understand	All
2. Inspect lifting equip.	Slips, trips, and falls. Pinch points and line of fire	Watch out for slip, trip, and falls PPE, be aware of pinch points	All
3. Spot equipment	Overhead loads/drops, line of fire	Personal awareness, use taglines, PPE	All

Risk Management and 5 Checks to Go



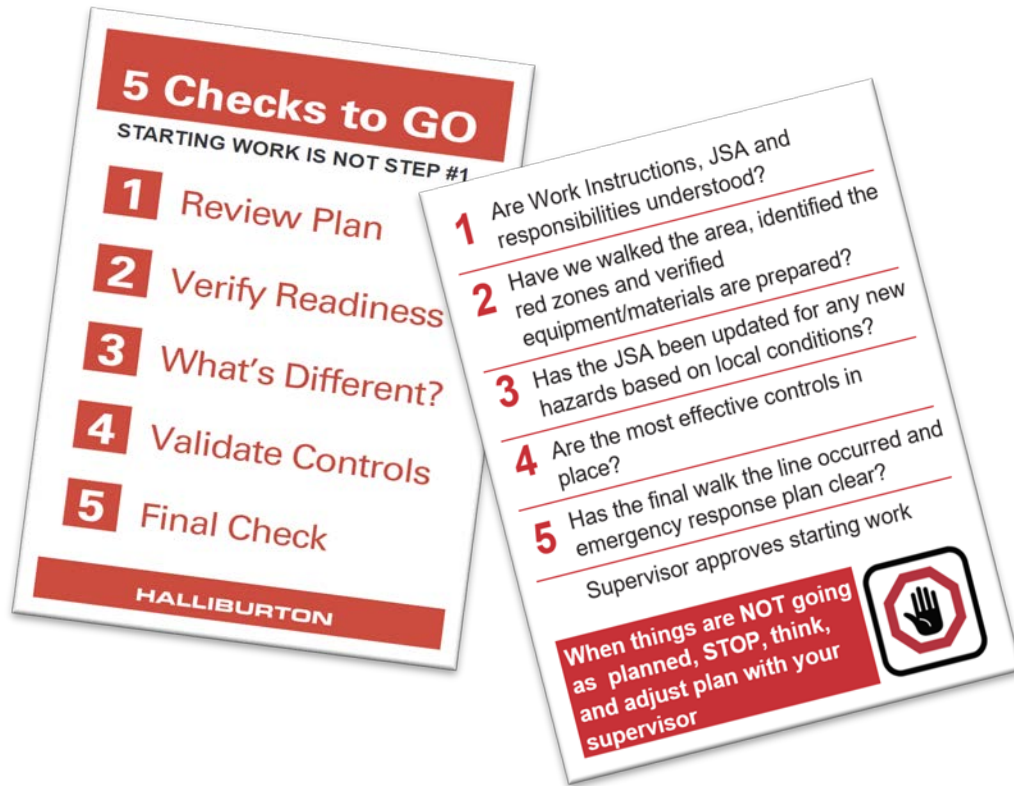


Risk Management Process



Risk Management and 5 Checks to Go

STARTING WORK IS NOT STEP #1



- 1 REVIEW PLAN**
Review your risk analysis, procedures and manuals, personnel training and competency, communication
- 2 VERIFY READINESS**
Check equipment, tools, certifications and calibrations, backups, RED Zone, walk the line
- 3 WHAT'S DIFFERENT?**
Adjust your JSA if something is out of plan, identify responsible parties and tasks, check working conditions
- 4 VALIDATE CONTROLS**
Make sure the controls are in place and working. Identify lines of fire and escape routes
- 5 FINAL CHECK**
Review the contingency and emergency response plan. Get supervisor approval before starting work

Risk Management and 5 Checks to Go


JSA - Job/Process Description:						
PSL/Support Function Sub PSL	Location	Date Completed / Revised	Core JSA ID # Core JSA Version	Approver	Minimum PPE Required	Supervisor Conducting Toolbox Talk, JSA, Pre-Tour 5 Checks to GO - Printed Name Below
						(Print Name)
USE STOP WORK AUTHORITY AND NOTIFY YOUR SUPERVISOR WHEN YOU BELIEVE AN IMMINENT DANGER OR RISK HAS NOT BEEN IDENTIFIED OR MAY NOT BE ADEQUATELY CONTROLLED.						<i>If applicable - Person In Charge / Ultimate Work Authority (Print and Sign)</i>
5 Checks to GO						
<input type="checkbox"/>	Check 1 Review Plan	Review any previously identified hazards (if prepopulated below), along with all work instructions such as DOS, procedures, checklists, etc. Verify Tasks are clear and understood, Confirm communication methods such as Radios / Hand Signals / Signage - Verify Competency and Operator Qualifications.				
<input type="checkbox"/>	Check 2 Verify Readiness	Walk the line" to ensure proper rig up, fluid movements, valve alignment, equipment set up, etc. Check equipment is certified, calibrated, in operable condition, safety guards in place, pre-run checks are complete. Ensure good housekeeping practices, red zones, line of fire and drop zones are effectively implemented. Check for simultaneous operations. Will your work affect theirs, will their work affect yours?				
<input type="checkbox"/>	Check 3	Ask team members open-ended questions regarding the plan, roles and responsibilities using the 10 Key Hazards list. Use the section below to document hazards that can't be immediately				
10 KEY HAZARDS - BIOLOGICAL CHEMICAL ELECTRICAL EQUIPMENT/MACHINERY/TOOLS GRAVITY MUSCULAR ERGONOMICS NOISE RADIATION STORED ENERGY THERMAL						
Steps associated with the activity	HAZARD CATEGORY From 10 Key Hazards	Describe the specific source, what could go wrong to who or what, and the most likely consequence. (E.g., Chemical - Employee could be splashed with acid causing a chemical burn)		What Control will prevent incident? (Use the highest feasible level of control) Eliminate, Substitute, Engineer, Admin, PPE		Name of Person Responsible for Implementing Control
<input type="checkbox"/>	Check 4 Validate Controls	Verify all controls are in place according to Core JSA or JSA and validate their effectiveness. Confirm escape routes and ask team members "where will you go or what will you do if something goes wrong?"				
<input type="checkbox"/>	Check 5 Final Check	Are all contingencies in place? Final walk the line. 100% ready to go? Team Lead/Supervisor approval and signature required				Signature
After Action Review / Additional Discussion Points or Notes						
JSA Participant - Print Name	What's Your Role?	Company Name	I have read and understood the risks and controls listed above - (Signature)			



Halliburton Digital Service Delivery Platform

- Centralized Database
- Shareable
- Efficiency
- Frontline Control
- Change Communication





"I feel confident when I hear my coworkers answer questions related to their respective roles."

"Takes some burden off me (supervisors) since I don't have to try and identify all the hazards myself, I get the whole team looking."

"Reviewing the 5 Checks questions before performing any type of work, makes the hazards feel relevant to me, today."

"Feels like we are more focused on the task at hand when we have to pause and answer questions about potential hazards, roles and next steps"